MONTHLY BULLETIN

OF

# THE OBSERVATORY

## AMERICAN UNIVERSITY OF BEIRUT

FORMERLY

SYRIAN PROTESTANT COLLEGE

BEIRUT, SYRIA

LAT. 33° 54′ 22″ N.

LONG. E. FROM GREENWICH 35° 28′ 10″

**AUGUST, 1933**

J. A. BROWN, DIRECTOR

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# AUGUST 1933

## METEOROLOGICAL REGISTER

| Date | Barometer reduced to 0°C Sea level and 45° Latitude 700 mm+... | | | | Thermometer Cent. | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 8:30 | 14:30 | 20:30 | Mean | Max. | Min. | 8:30 | 14:30 | 20:30 | Mean |
| 1 | 56.7 | 56.0 | 55.5 | 56.0 | 37.1 | 22.4 | 27.9 | 30.0 | 25.4 | 25.9 |
| 2 | 4.3 | 3.3 | 2.9 | 3.5 | 30.9 | 23.5 | 27.7 | 30.1 | 24.9 | 27.5 |
| 3 | 2.7 | 2.7 | 3.7 | 3.0 | 31.2 | 23.2 | 28.7 | 30.6 | 25.3 | 28.2 |
| 4 | 5.2 | 5.6 | 6.1 | 5.6 | 30.8 | 23.0 | 28.6 | 30.4 | 24.8 | 27.6 |
| 5 | 7.5 | 6.8 | 7.0 | 7.1 | 30.6 | 22.3 | 27.8 | 30.3 | 25.7 | 27.9 |
| 6 | 6.5 | 5.6 | 5.8 | 6.0 | 31.4 | 23.3 | 27.5 | 30.8 | 25.8 | 28.0 |
| 7 | 4.5 | 4.1 | 4.9 | 4.5 | 30.4 | 24.2 | 28.6 | 29.1 | 24.5 | 27.4 |
| 8 | 5.5 | 5.6 | 6.1 | 5.7 | 30.7 | 21.7 | 28.6 | 29.9 | 25.1 | 27.9 |
| 9 | 6.5 | 6.9 | 7.7 | 7.0 | 30.6 | 22.7 | 27.4 | 29.9 | 25.4 | 27.6 |
| 10 | 8.1 | 7.9 | 8.1 | 8.0 | 30.4 | 22.7 | 27.4 | 29.7 | 25.9 | 28.0 |
| 11 | 8.3 | 7.2 | 7.2 | 7.6 | 30.9 | 22.9 | 28.1 | 30.1 | 25.1 | 27.7 |
| 12 | 5.3 | 4.7 | 60.0 | 6.7 | 31.3 | 23.4 | 23.6 | 30.4 | 25.6 | 28.2 |
| 13 | 6.0 | 6.1 | 56.6 | 6.2 | 31.3 | 22.9 | 28.8 | 30.1 | 25.7 | 28.2 |
| 14 | 7.1 | 6.8 | 6.9 | 6.9 | 30.8 | 23.0 | 26.9 | 29.9 | 25.1 | 27.3 |
| 15 | 7.1 | 6.1 | 6.3 | 6.5 | 30.7 | 22.1 | 27.0 | 29.9 | 25.3 | 27.3 |
| 16 | 6.3 | 5.4 | 5.5 | 5.7 | 31.2 | 22.4 | 27.3 | 30.1 | 26.2 | 27.9 |
| 17 | 5.4 | 4.9 | 6.1 | 5.4 | 31.5 | 23.8 | 28.1 | 30.8 | 24.8 | 27.9 |
| 18 | 7.1 | 6.2 | 7.9 | 7.1 | 31.2 | 22.3 | 27.8 | 30.6 | 25.3 | 27.9 |
| 19 | 7.9 | 7.2 | 6.5 | 7.2 | 30.9 | 21.8 | 27.5 | 30.1 | 25.6 | 27.7 |
| 20 | 6.7 | 6.1 | 6.4 | 6.4 | 30.7 | 22.4 | 27.9 | 30.1 | 25.6 | 27.9 |
| 21 | 6.6 | 6.1 | 6.3 | 6.3 | 30.9 | 22.6 | 27.7 | 30.7 | 26.0 | 27.8 |
| 22 | 6.5 | 5.7 | 5.7 | 5.9 | 31.5 | 23.7 | 28.1 | 30.9 | 26.3 | 28.4 |
| 23 | 5.2 | 4.5 | 4.7 | 4.8 | 31.4 | 23.9 | 27.7 | 30.5 | 25.9 | 28.0 |
| 24 | 4.6 | 3.9 | 4.2 | 4.2 | 32.9 | 24.0 | 29.9 | 32.2 | 26.2 | 29.1 |
| 25 | 4.7 | 4.8 | 2.9 | 4.1 | 32.3 | 25.4 | 29.7 | 32.1 | 25.9 | 29.2 |
| 26 | 6.5 | 6.0 | 6.3 | 6.2 | 31.3 | 23.1 | 28.2 | 31.1 | 30.9 | 30.1 |
| 27 | 6.2 | 6.3 | 7.2 | 6.6 | 31.1 | 22.1 | 27.7 | 30.5 | 25.4 | 27.9 |
| 28 | 7.8 | 7.1 | 7.7 | 7.5 | 30.7 | 23.4 | 27.9 | 29.8 | 25.0 | 27.6 |
| 29 | 9.1 | 8.8 | 9.7 | 9.2 | 30.7 | 21.4 | 27.9 | 30.3 | 24.7 | 27.6 |
| 30 | 61.0 | 60.3 | 61.2 | 60.8 | 31.1 | 22.5 | 28.3 | 30.4 | 25.9 | 28.2 |
| 31 | 61.3 | 60.9 | 60.6 | 60.9 | 32.3 | 23.1 | 29.4 | 30.4 | 24.6 | 28.1 |
| | 756.58 | 756.09 | 756.57 | 756.40 | 31.44 | 22.94 | 28.09 | 30.38 | 25.61 | 27.94 |

Barometer, Range for month 752.7–761.3 m.m.

,, 50-yr. average for month 756.173 m.m.

Thermometer, Range for month 21.4°–37.1° C.

,, 50-yr. average for month 28.39 C.

Rain, Total for month 0. m.m.

,, , 50-yr average for month 0.51 m.m.

,, , total Sept. 1st to end of month 496.28 m.m.

,, , 50-yr. average, Sept. 1st to end of month 907.56 m.m

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# METEOROLOGICAL REGISTER

| Date | Wet Bulb Cent. | | | Elasticity of Vapor m.m. | | | | Relative Moisture per cent. | | | | Sun hrs. | Rain m.m. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 8:30 | 14:30 | 20:30 | 8:30 | 14:30 | 20:30 | Mean | 8:30 | 14:30 | 20:30 | Mean | | |
| 1 | 23.5 | 25 5 | 23.3 | 18.5 | 20.4 | 19.4 | 19.4 | 66 | 64 | 81 | 70 | 10.0 | |
| 2 | 23.4 | 25.1 | 23.2 | 18.0 | 19.5 | 20.0 | 19.1 | 65 | 61 | 83 | 70 | 10.2 | |
| 3 | 23.9 | 24.1 | 21.9 | 18.2 | 17.3 | 17.0 | 17.5 | 61 | 53 | 71 | 62 | 12.0 | |
| 4 | 22.4 | 25.7 | 22.2 | 15.7 | 21.0 | 17.8 | 18.2 | 53 | 63 | 77 | 65 | 10.4 | |
| 5 | 22.1 | 25.8 | 23.2 | 15.6 | 20.6 | 19.0 | 18.4 | 56 | 64 | 77 | 66 | 10.5 | |
| 6 | 23.3 | 24.6 | 22.4 | 18.0 | 18.1 | 17.5 | 17.9 | 66 | 55 | 71 | 64 | 10.0 | |
| 7 | 23.4 | 24.6 | 21.5 | 17.3 | 18.5 | 16.7 | 17.5 | 58 | 58 | 74 | 63 | 9.5 | |
| 8 | 22.1 | 24.6 | 22.9 | 15.1 | 18.6 | 19.0 | 17.6 | 52 | 60 | 81 | 64 | 10.5 | |
| 9 | 22.2 | 25.6 | 23.3 | 15.9 | 20.7 | 20.7 | 19.1 | 59 | 65 | 85 | 70 | 10.0 | |
| 10 | 21.8 | 25.8 | 23.7 | 15.4 | 21.4 | 20.0 | 19.0 | 56 | 68 | 80 | 68 | 10.0 | |
| 11 | 23.1 | 24.7 | 22.3 | 17.1 | 18.7 | 17.6 | 17.8 | 60 | 59 | 76 | 65 | 11.5 | |
| 12 | 23.9 | 25.6 | 22.8 | 18.3 | 21.0 | 18.4 | 19.2 | 62 | 65 | 75 | 67 | 10.0 | |
| 13 | 24.3 | 25.9 | 24.9 | 19.0 | 20.9 | 22.6 | 20.5 | 64 | 66 | 92 | 74 | 11.4 | |
| 14 | 23.4 | 24.5 | 23.2 | 18.6 | 18.5 | 19.5 | 18.9 | 70 | 59 | 82 | 70 | 11.0 | |
| 15 | 23.7 | 24.4 | 23.2 | 19.1 | 18.4 | 19.3 | 18.9 | 72 | 59 | 81 | 71 | 12.2 | |
| 16 | 23.2 | 25.1 | 23.7 | 17.8 | 19.5 | 19.7 | 19.0 | 67 | 61 | 78 | 69 | 10.0 | |
| 17 | 24.6 | 24.7 | 22.6 | 20.0 | 18.5 | 18.6 | 18.9 | 71 | 55 | 80 | 69 | 10.4 | |
| 18 | 24.3 | 24.4 | 23.2 | 19.7 | 18.0 | 19.6 | 19.1 | 71 | 55 | 82 | 69 | 12.5 | |
| 19 | 23.7 | 25.1 | 22.6 | 18.7 | 19.5 | 18.0 | 18.7 | 69 | 61 | 74 | 68 | 12.5 | |
| 20 | 23.3 | 25.1 | 22.7 | 17.6 | 19.4 | 18.2 | 18.4 | 63 | 60 | 75 | 66 | 10.5 | |
| 21 | 24.3 | 25.0 | 23.6 | 19.8 | 18.9 | 19.6 | 19.4 | 72 | 57 | 78 | 69 | 10.4 | |
| 22 | 25.5 | 25.3 | 24.9 | 18.6 | 19.3 | 22.1 | 20.0 | 66 | 58 | 87 | 70 | 12.0 | |
| 23 | 24.7 | 25.5 | 23.1 | 20.1 | 20.1 | 18.7 | 19.6 | 72 | 61 | 75 | 69 | 12.4 | |
| 24 | 25.3 | 26.0 | 22.6 | 20.7 | 20.8 | 17.6 | 19.7 | 69 | 55 | 70 | 64 | 11.9 | |
| 25 | 24.5 | 25.8 | 22.6 | 18.7 | 23.9 | 17.6 | 20.1 | 60 | 96 | 70 | 75 | 12.0 | |
| 26 | 26.0 | 24.5 | 22.6 | 22.8 | 17.7 | 18.0 | 19.5 | 81 | 52 | 74 | 69 | 12.3 | |
| 27 | 22.5 | 25.6 | 20.9 | 16.4 | 19.4 | 15.2 | 17.0 | 59 | 61 | 63 | 61 | 12.0 | |
| 28 | 22.3 | 22.2 | 22.1 | 16.0 | 14.7 | 17.5 | 16.1 | 57 | 47 | 74 | 59 | 12.0 | |
| 29 | 23 1 | 22.7 | 21.1 | 15.5 | 15.2 | 15.8 | 15.5 | 55 | 47 | 69 | 57 | 11.5 | |
| 30 | 22 8 | 23 8 | 24.1 | 16.6 | 16 9 | 20.7 | 18.1 | 57 | 52 | 83 | 64 | 12.0 | |
| 31 | 25 1 | 25.3 | 21 8 | 20 1 | 19.6 | 17.2 | 19 0 | 65 | 60 | 75 | 66 | 11 8 | |
| | 23.83 | 24.92 | 22.86 | 18.02 | 19.18 | 18.66 | 18.61 | 63.6 | 60.1 | 77.2 | 66.8 | 11.78 | |

Height of Barometer above sea level: 33.7 meters.
„ „ Thermometers above ground:
Dry and wet 1.55 m.: Max. 1.75 m.: Min. 1.70 m
Rim of Rain Gauge: above ground 0.56 m.: above sea level 30.31 m.
Time of readings minus 2 hours equals G. C. T.
50-year averages are for period, 1875-1924

# AUGUST 1933

## METEOROLOGICAL REGISTER

| Date | Clouds. Clear—0 Overcast—10 | | | | Direction and force of Wind 0—10 | | | Wind per day | Sea | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| | 8:30 | 14:30 | 20:30 | Mean | 8:30 | 14:30 | 20:30 | Km. | | |
| 1 | 0 | 2cu | 3cu | 1.6 | 1sw | 1sw | 0 | 442.0 | slight | dew at night |
| 2 | 3cu | 2cu | 3cu | 2.6 | 3sw | 2sw | 1sw | 595.8 | mod. | |
| 3 | 3cu | 4stcu | 1cu | 2.6 | 3sw | 3sw | 1sw | 604.7 | „ | |
| 4 | 0 | 10cu | 10cu | 6.6 | 3sw | 2sw | 1ws | 528.8 | „ | |
| 5 | 2cu | 9cu | 8cu | 6.3 | 1sw | 2sw | 1sw | 333.4 | slight | |
| 6 | 7cu | 1cu | 5cu | 4.3 | 2sw | 3sw | 3sw | 466.1 | mod. | |
| 7 | 2cu | 5cu | 5cu | 4.0 | 3sw | 3sw | 4sw | 627.0 | „ | |
| 8 | 2cu | 5cu | 5cu | 4.0 | 2sw | 2sw | 2sw | 394.7 | „ | |
| 9 | 5cu | 7cu | 5cu | 5.6 | 2sw | 3sw | 1sw | 348.8 | „ | |
| 10 | 2cu | 5cu | 10cu | 5.6 | 1sw | 1sw | 0 | 431.6 | „ | |
| 11 | 2cu | 1cu | 4cu | 2.3 | 1sw | 3sw | 3sw | 456.5 | „ | |
| 12 | 1cu | 2cu | 5cu | 2.6 | 4w | 5w | 5w | 499.5 | stormy | |
| 13 | 0 | 1cu | 1cu | 0.6 | 1w | 1sw | 0 | 481.2 | slight | heavy dew at night |
| 14 | 3cu | 1cu | 5stcu | 3.0 | 1w | 1w | 0 | 185.0 | light | hv. dew in the mor. |
| 15 | 7cu | 1stcu | 3stcu | 3.6 | 0 | 2w | 0 | 140.3 | slight | |
| 16 | 3cu | 2cu | 1cu | 2.0 | 1w | 1w | 0 | 248.3 | light | |
| 17 | 0 | 0 | 0 | 0.0 | 1w | 1w | 0 | 175.6 | slight | |
| 18 | 1cu | 2cu | 1cu | 1.3 | 1sw | 1sw | 0 | 161.4 | „ | |
| 19 | 3cu | 2cu | 2cu | 2.3 | 1sw | 1sw | 0 | 450.6 | mod. | |
| 20 | 1cu | 2cu | 0 | 1.0 | 1sw | 1sw | 0 | 100.3 | „ | |
| 21 | 5cu | 1cu | 2cu | 2.6 | 1sw | 1sw | 1sw | 230.7 | „ | |
| 22 | 2cu | 1cu | 10cu | 4.3 | 1sw | 1sw | 0 | 161.4 | slight | |
| 23 | 4cu | 1cu | 0 | 1.6 | 1sw | 1nw | 1nw | 323.5 | „ | |
| 24 | 2cu | 0 | 0 | 0.6 | 1sw | 2n | 3n | 215.9 | mod. | |
| 25 | 1cu | 1cu | 1cu | 1.0 | 0 | 1nw | 1nw | 316.7 | slight | |
| 26 | 1cu | 1cu | 0 | 0.6 | 2s | 1sw | 0 | 408.7 | mod. | |
| 27 | 1cu | 1cu | 1cu | 1.0 | 2s | 1s | 0 | 470.2 | slight | |
| 28 | 1cu | 3cu | 2cu | 2.0 | 2sw | 2sw | 1sw | 435.3 | stormy | |
| 29 | 1cu | 0 | 3stcu | 1.3 | 1n | 1n | 0 | 329.2 | slight | |
| 30 | 0 | 0 | 0 | 0.0 | 3nw | 3n | 2n | 224.8 | stormy | dew at night |
| 31 | 0 | 0 | 0 | 0.0 | 1nw | 2nw | 1nw | 202.4 | mod. | |
| | | | | 2.50 | 1.5 | 1.8 | 1.0 | 351.62 | | |

### Number of Daily Wind Observations

| Time | N | NE | E | SE | S | SW | W | NW | Calm |
|---|---|---|---|---|---|---|---|---|---|
| 8:30 | 1 | 0 | 0 | 0 | 1 | 17 | 6 | 4 | 2 |
| 14:30 | 3 | 0 | 0 | 0 | 1 | 19 | 5 | 3 | 0 |
| 20:30 | 2 | 0 | 0 | 0 | 0 | 11 | 1 | 3 | 14 |
| Totals | 6 | 0 | 0 | 0 | 2 | 47 | 12 | 10 | 16 |

Number of days with rain 0, fog 0, thunderstorm 0, gale 0.

50-yr average number of days with rain during month 0.2